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09/824,119	04/02	/2001	Craig W. Hodgson	LITTONP.002C1	9187	
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PATTI & B	RILL		CHANG, A	CHANG, AUDREY Y		
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CHICAGO,	IL 60602		2872			

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Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicant(s) V Op824,119 HODGSONETAL			<u> </u>					
### Deficies Action Summary ### Deficies Action Summary ### Deficies Action Summary ### Deficies Action Summary ### Deficies Of Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. **Extensions of time may be available under the provisions of 3° CFR 1.138(n). In rower, however, may a reply be timely filed. #### THE DEFICIES OF THIS COMMUNICATION. **Extensions of times may be available under the provisions of 3° CFR 1.138(n). In rower, however, may a reply be timely filed. #### THE DEFICIES OF THIS COMMUNICATION. **Extensions of times may be available under the provisions of 3° CFR 1.138(n). In rower, however, may a reply be timely filed. ###### THE DEFICIES OF THIS COMMUNICATION. **Extensions of times may be available under the provisions of 3° CFR 1.138(n). In rower, however, may a reply be timely filed. ##### THE DEFICIES OF THIS COMMUNICATION. **Extensions of times application is producted better than the stability private of the stability of the stability private of the stability of the stabi		Application No.	Applicant(s)					
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DETAILED ACTION

Remark

- This Office Action is in response to applicant's amendment filed on August 25, 2003, which has been entered as paper number 18.
- By this amendment, the applicant has amended claim 4.
- Claims 1 and 3-30 remain pending in this application.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1 and 3-30 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The reasons for rejection are set forth in the previous Office Action dated June 9, 2003.

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1 and 3-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The reasons for rejection are set forth in the previous Office Action dated June 9, 2003.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1, 3-10, 13-20, 21, 22, and 23-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over the patent issued to Giallorenzi (PN. 4,648,083).

The reasons for rejection are set forth in the previous Office Action dated June 9, 2003.

Response to Arguments

- 7. Applicant's arguments filed on August 25, 2003 have been fully considered but they are not persuasive.
- 8. In response to applicant's arguments concerning the 35 USC 112, first paragraph, rejections to the claims, the applicant is respectfully reminded that the arguments are *mainly based* on the identification of "detector D1" with the term "signal designation". However there is nowhere in the specification and the claims to give such identification, definition and support. Although the claims are interpreted in light of the specification, *limitations* from the specification are not read into the claims. Particularly in this case there is no indication or no conceivable reasons in the specification and in the claims to allow one to interpret "signal designation" as "detector". See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). The rejections therefore still stand.

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9. In response to applicant's arguments concerning the 35 USC112, second paragraph, rejections to the claims, the applicant is respectfully reminded that the claims as stand now FAIL to "meet the threshold requirements of clarity and precision" as required and stated in MPEP 2173.02 for the reasons stated below. Firstly, the claims have recited the following terms "z sensor groups, each of said sensor groups comprising ... input coupler and output couplers", "said input couplers and said output couplers in said z sensor groups", "first output (or input) coupler", and "second output (or input) coupler". These terms recite a plurality of input and output couplers in all of the z sensor groups. The term "said output couplers" and the term "said input coupler" in the claims therefore become confusing and indefinite since it is not clear which output coupler or which input coupler is referred here. These confusing and indefinite phrases seriously contribute "antecedent basis" problems. In fact, since there are a plurality of output and input couplers in each of the z sensor groups, it is even not clear if the couplers are within the same sensor group or not.

The phrase "a signal designation on one of said n return fiber lines" could be interpreted as (1) signal designated on the return fiber line, (2) a return fiber line with signal designated on it, since the specification fails to give a DEFINITION for such term. In applicant's arguments, the applicant has identified the "signal designation" with the "detector" however there is no support for such interpretation in the specification. The phrase therefore remained indefinite and unclear. The rejections under 35 USC 112, second paragraph, still hold.

10. In response to applicant's arguments concerning the prior art rejections to the claims, the examiner wishes to point out respectfully that applicant's arguments are based on applicant's "interpretation" of the claims however the claims, for the above reasons, have *failed to define definite* scopes and the arguments are therefore irrelevant here. Since although the claims are interpreted in light of the specification, **limitations from the specification are not read into the claims**. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). With regard to the issue that the cited

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reference does not teach explicitly that the coupler ratios are determined to reduce the differences in the returned optical signal power levels, the examiner wishes to point out respectfully that one of the implicitly function of a coupler is to have certain desired coupling ration to adjust the power level of the signal. It is extremely common practice in the art to select the coupling ratios in the couplers to adjust the output power levels of the signals.

11. The applicant is respectfully reminded that although claims 11 and 12 have not been amended however there are typographic errors in the claims. The term "the m H n sensor array" has been presented erroneously. Corrections are required.

Conclusion

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Audrey Y. Chang whose telephone number is 703-305-6208. The examiner can normally be reached on Monday-Friday (8:00-4:30), alternative Mondays off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on 703-305-0024. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Audrey Y. Chang Primary Examiner Art Unit 2872

A. Chang, Ph.D.